MS-1230

Switching Power Supply

For various applications

User's Guide

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Important safety information

Please read these warnings before using the MS-1230 power supply.

Warning: Safe operation

To reduce the risk of fire or electric shock, please adhere to these warnings:

Moisture: Do not expose this appliance to water or moisture.

Cleaning: Unplug the power supply from the mains power outlet before cleaning. Switching off the power supply will not reduce this risk.

Ventilation: Place the power supply in an area that will allow air to flow freely around the unit. This will prevent the power supply and mobile radio from overheating. Do not block or obstruct any of the ventilation openings on the unit.

Warning: Electrical connections

To reduce the risk of fire or electric shock, please adhere to these warnings:

The power supply should be properly connected and grounded. Use the provided AC power cable to connect the power supply to a mains power outlet that is properly installed and grounded, in accordance with all local codes and ordinances. If the power supply cord is damaged, it must be replaced with the same type to comply with safety requirements.

Warning: Servicing

This power supply should be serviced by a qualified service technician. Incorrect assembly may result in electric shock or fire.

Warning: High voltage levels

Some of the components inside the power supply can operate at voltage levels that may be lethal.

User information

The MS-1230 power supplies enable you to use with any electronic products.

Check the mains supply voltage
Before you plug in and turn on the power supply for the first time, please check the mains supply voltage.
The voltage rating of the power supply is printed on a label on the cover of the unit and the voltage selector on the rear panel. Verify that it corresponds with your local mains supply voltage (that is factory setting at 220VAC).

Turning the power supply on
Turn the power supply on by pressing the power switch to the ’ON’ Position.

Turning the power supply off
Before you turn the power supply off, turn the radio off as described in the user documentation for the radio.
Turn the power supply off by pressing the power switch to the ’OFF’ Position

Cooling
The MS-1230 power supply is cooled by convection and forced air cooling (that is, normal airflow around the power supply in combination with a temperature controlled fan to improve cooling at higher levels of use). The fan is always activated and the speed is controlled by a sensor. When the temperature rises, the fan speed increases.

Caution: Place the power supply in a well ventilated and cool area. Do not block the ventilation openings on the sides, back or top of the unit.

Installation information
Caution: Install the power supply indoors. It is not designed for operation out-of-doors or in wet environments.

Installation

1. Unplug the power supply from the mains supply outlet.
2. Connect the power cable’s positive (red) wire to the positive terminal and connect the negative (black) wire to the negative terminal on the back of the power supply.
3. Plug the power cable into the power socket on the back of the radio.

Electrical specifications

MS-1230 power supply

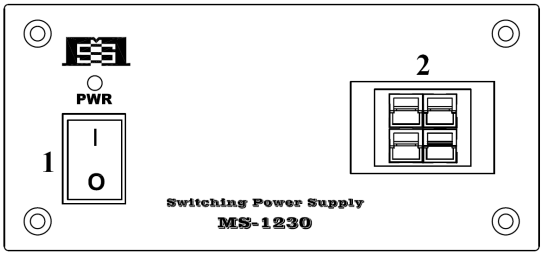
Model	MS-1230 Series
Input Voltage	220~240VAC or 100~120VAC Switchable
Input Frequency	50/60Hz
Polarity Grounded	Negative
Output Voltage	4~16V (MS-1230Mx, Dx, Sx)，13..8V(MS-1230Ax、Bx、Nx)
Continuous (13.8V)	25A
Surge(13,8V)	30A
Ripple & Noise	<100mV
Efficiency	75%
Dimension(L*W*H mm)	154 x127x63
Net Weight	1.355 kg

Note: Specifications may change without prior notice

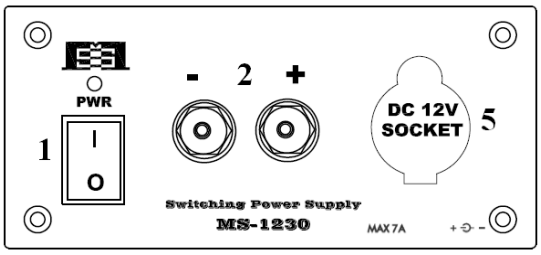
Panel Descriptions

Front panels:

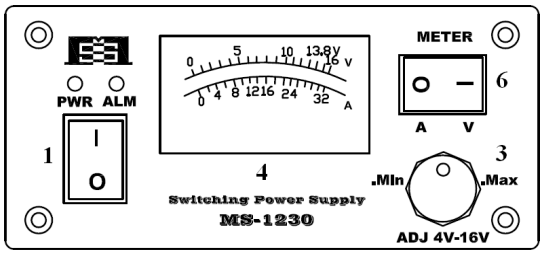
MS-1230Ax (x can be A、B、T)



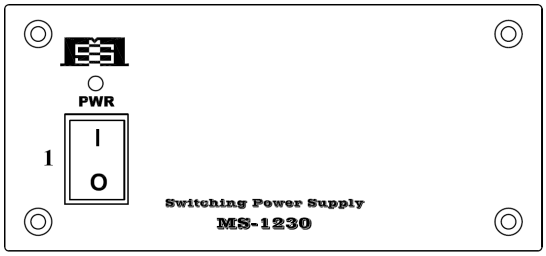
MS-1230Bx (x can be A、B、T)



MS-1230Mx (x can be A、B、T)



MS-1230Nx (x can be A、B、T)



MS-1230Dx (x can be A、B、T)

MS-1230Sx (x can be A、B、T)

1. Power Switch

2. DC Output I

3. DC Output Voltage Adjust knob

4.V/A Switchable meter

5. DC Output Socket

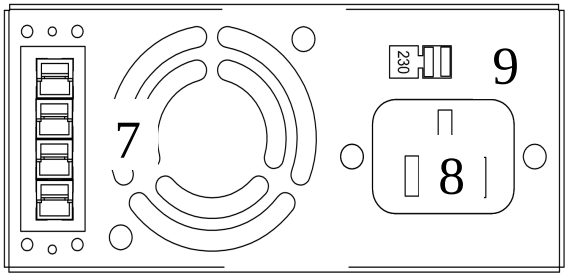
6.V/A meter Switch

Note:

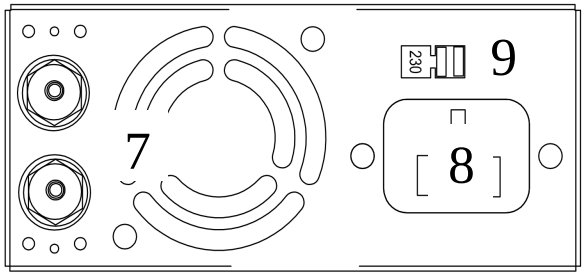
1. The ADJ/FIX switch of MS-1230Dx is used for adjust output voltage from 4~16V (ADJ), or quickly back to default voltage 13.8V (FIX).

Rear panels:

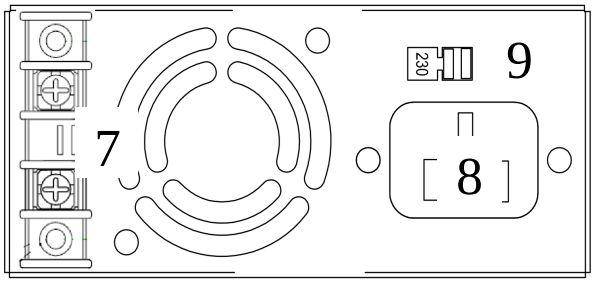
MS-1230xA (x can be A、B、D、M、N、S)



MS-1230xB (x can be A、B、D、M、N、S)



MS-1230xT (x can be A、B、D、M、N、S)



7. DC Output II
8. AC Input Socket
9. AC Input Voltage Selector